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DATE(S) ISSUED:

12/11/2012

SUBJECT:

Multiple Vulnerabilities in Adobe Flash Player and AIR Could Allow Remote Code Execution (APSB12-27)

OVERVIEW:

Multiple vulnerabilities have been discovered in Adobe Flash Player and Adobe AIR that could allow attackers to execute arbitrary code on the affected systems. Adobe Flash Player and Adobe AIR are widely distributed multimedia and application players used to enhance the user experience when visiting web pages or reading email messages.

Successful exploitation could result in an attacker gaining the same privileges as the logged on user. Depending on the privileges associated with the user, an attacker could then install programs; view, change, or delete data; or create new accounts with full user rights. Failed exploit attempts will likely cause denial-of-service conditions.

SYSTEMS AFFECTED:

- Adobe Flash Player 11.5.502.110 and earlier versions for Windows and Macintosh
- Adobe Flash Player 11.2.202.251 and earlier versions for Linux
- Adobe Flash Player 11.1.115.27 and earlier versions for Android 4.x
- Adobe Flash Player 11.1.111.24 and earlier versions for Android 3.x and 2.x
- Adobe AIR 3.5.0.600 and earlier versions for Windows and Macintosh, Android and SDK (includes AIR for iOS)

RISK:

Government:

- Large and medium government entities: **High**
- Small government entities: **High**

Businesses:

- Large and medium business entities: **High**
- Small business entities: **High**

Home users: High

DESCRIPTION:

Adobe Flash Player is prone to three vulnerabilities that could allow for remote code execution. The vulnerabilities are as follows:

- Buffer overflow vulnerability that could lead to code execution (CVE-2012-5676)
- Integer overflow vulnerability that could lead to code execution (CVE-2012-5677)
- Memory corruption vulnerability that could lead to code execution (CVE-2012-5678)

Successful exploitation could result in an attacker gaining the same privileges as the logged on user. Depending on the privileges associated with the user, an attacker could then install programs; view, change, or delete data; or create new accounts with full user rights. Failed exploit attempts will likely cause denial-of-service conditions.

RECOMMENDATIONS:

The following actions should be taken:

- Install the updates provided by Adobe immediately after appropriate testing.
- Run all software as a non-privileged user (one without administrative privileges) to diminish the effects of a successful attack.
- Remind users not to visit untrusted websites or follow links provided by unknown or untrusted sources.
- Do not open email attachments from unknown or untrusted sources.
- Users of Adobe Flash Player 11.5.502.110 and earlier versions for Windows should update to Adobe Flash Player 11.5.502.135.
- Users of Adobe Flash Player 11.5.502.110 and earlier versions for Macintosh should update to Adobe Flash Player 11.5.502.136.
- Users of Adobe Flash Player 11.2.202.251 and earlier versions for Linux should update to Adobe Flash Player 11.2.202.258.
- Flash Player installed with Google Chrome will automatically be updated to the latest Google Chrome version, which will include Adobe Flash Player 11.5.31.5 for Windows, Macintosh and Linux.
- Flash Player installed with Internet Explorer 10 for Windows 8 will automatically be updated to the latest Internet Explorer 10 version, which will include Adobe Flash Player 11.3.377.15.
- Users of Adobe Flash Player 11.1.115.27 and earlier versions on Android 4.x devices should update to Adobe Flash Player 11.1.115.34.
- Users of Adobe Flash Player 11.1.111.24 and earlier versions for Android 3.x and earlier versions should update to Flash Player 11.1.111.29.
- Users of Adobe AIR 3.5.0.600 for Windows should update to Adobe AIR 3.5.0.880.
- Users of Adobe AIR 3.5.0.600 for Macintosh should update to Adobe AIR 3.5.0.890.
- Users of the Adobe AIR 3.5.0.600 SDK (includes AIR for iOS) should update to the Adobe AIR 3.5.0.880 SDK (Windows) or the Adobe AIR 3.5.0.890 SDK (Macintosh).

REFERENCES:**Adobe:**

<http://www.adobe.com/support/security/bulletins/apsb12-27.html>

SecurityFocus:

<http://www.securityfocus.com/bid/56892>

<http://www.securityfocus.com/bid/56898>

<http://www.securityfocus.com/bid/56896>

CVE:

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2012-5676>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2012-5677>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2012-5678>